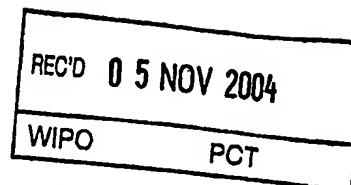


COPY FOR IB

PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



To:

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**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) 29 OCTOBER 2004 (29.10.2004)

Applicant's or agent's file reference  
PUA012701

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
**PCT/KR2004/001576**

International filing date (day/month/year)  
**29 JUNE 2004 (29.06.2004)**

Priority date(day/month/year)  
10 DECEMBER 2003 (10.12.2003)

International Patent Classification (IPC) or both national classification and IPC

**IPC7 B66B 11/04**

Applicant

**HUR, Jae-Young et al**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

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Authorized officer

JIANG, GI JEONG

Telephone No. 82-42-481-8141



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001576

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format  
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/KR2004/001576

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-10	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims	None	NO

**2. Citations and explanations :**

The present invention relates to a drive apparatus for an elevator which is comprising a drive section, a brake section, a reduction speed section, a rotation section, a sheave and support section.

Reference is made to the following document:

D1: US 4,465,162 A (YOKOTA) 14 August 1984

**(1) Novelty (N)**

Claim 1 of the present application relates to a drive apparatus for an elevator comprising a speed reduction section having a planetary pinion (23), a fixed gear (50), a spline (55), a fixed cover (86), etc. The speed reduction section comprising a pinion (23), a fixed gear (50), a spline (55), and a fixed cover (86) as set forth in claim 1 is not disclosed in D1.

Claim 2 of the present application relates to a drive apparatus for an elevator comprising a speed reduction section having three planetary pinions (33, 42, 43), two change speed gears (30, 40), a fixed gear (50'), a spline (55), a fixed cover (87), etc. The speed reduction section comprising three planetary pinions, two change speed gears, a fixed gear, a spline, and a fixed cover as set forth in claim 2 is not disclosed in D1.

Therefore, the subject matter of claims 1 and 2 is considered to be novel under PCT Article 33(2). Claims 3-10 are dependent on claims 1 and/or 2, and consequently the subject matter of claims 3-10 is also considered to be novel.

(Continued on Supplemental Sheet.)

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001576

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

Box V.

**(2) Inventive Step (IS)**

The speed reduction section of a drive apparatus of an elevator comprising a planetary pinion (23), a fixed gear (50), a spline (55), a fixed cover (86), a fixed gear (50'), a spline (55), a fixed cover (87) in claim 1 or 2 is not disclosed in D1. In addition, said technical features of the drive apparatus of an elevator cannot be readily invented by a skilled person in the art. Therefore, claims 1-2 meet the requirement of PCT Article 33(3) with respect to inventive step. Claims 3-10 are dependent on claims 1 and/or 2, and consequently the subject matter of claims 3-10 are also considered to involve an inventive step.

**(3) Industrial Applicability (IA)**

The present invention is used for an elevator. Therefore, claims 1-10 meet the criteria of PCT Article 33(4).